Abandoned Uranium Mine Site Assessment for the Red Bluff Nos. 1-5, 9 Site (NM0077)

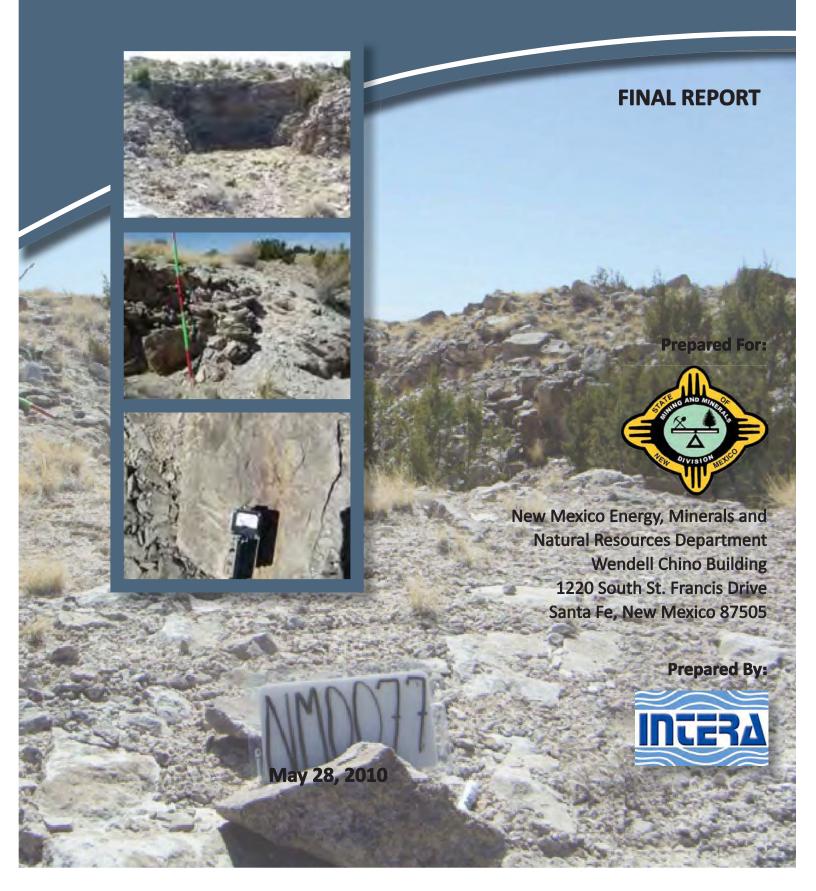


TABLE OF CONTENTS

1.0	Introduction	1
1.1	Previously Known Information About the Site	1
1.2	Site Location and Directions	1
1.3	Site Geology	1
1.4	Site Hydrogeology	2
1.5	Regional Topography and Terrain	2
2.0	Mine Features	2
2.1	Mine Shafts, Adits, and Declines	2
2.2	Mining and Exploration Pits and Open Cuts	3
2.3	Waste and Ore Piles and Disturbances	3
2.4	Mining Related Buildings and Foundations	3
2.5	Other Mine Features	3
2.6	Boreholes	3
2.7	Reclamation Activities	3
3.0	Archeological Sites	4
4.0	Site Gamma Radiation Readings	4
5.0	Current Land Uses	4
5.1	Human Activity and Recreational Site Use	4
5.2	Nearby Residential, Commercial and Industrial Structures	4
5.3	Nearby Domestic Wells	4
5.4	Evidence of Grazing or Agriculture	4
5.5	Evidence of Wildlife	
6.0	Vegetation	5
7.0	Potential Offsite Impacts	5
7.1	Erosion	
7.2	Environmental Impacts	5
8.0	References	



TABLES

Table 1 Site Features

Table 2 Gamma Radiation Survey Results

FIGURES

Figure 1 Site Location Map
Figure 2 Topographic Map
Figure 3 Aerial Photo
Figure 4a Site Map on Aerial Photo
Figure 4b Site Map with Surface Ownership

APPENDICES

Appendix A Photo Log

Appendix B Field Notes



1.0 INTRODUCTION

INTERA Incorporated (INTERA) has prepared this Abandoned Uranium Mine (AUM) Site Assessment Report for the Mining and Minerals Division (MMD) of the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) in compliance with the Professional Service Agreement dated November 2, 2009. INTERA visited the Red Bluff Nos. 1, 2, 3, 4, 5 and 9 Site (AUM Site), MMD ID: NM0077 on April 6, 2010.

1.1 Previously Known Information About the Site

The claims associated with this AUM Site were filed in 1950 and 1951 and were worked until 1956. Anderson (1980) visited the Red Bluff Nos. 1, 2, 3, 4, 5, and 9 in 1980, noting a series of small open cuts and trenches in the Todilto Formation. One small adit and a pond were also found. A great deal of secondary uranium mineralization was apparent at the site (Anderson, 1980).

1.2 SITE LOCATION AND DIRECTIONS

The AUM Site is on private and federal (Bureau of Land Management) land. The Site covers most of the northern 2/3 of Section 4, Township 12 North, Range 9 West and is located in Cibola County (formerly part of Valencia County), approximately 11 miles northeast of the town of Milan. The location of this site was provided to INTERA by MMD.

To access the AUM Site from Albuquerque, drive west on Interstate 40 for 83 miles. Take Exit 79 towards San Mateo and turn right. Continue straight until you reach U. S. 66, less than a quarter mile. Turn left on U.S. 66 and drive 0.2 miles, then turn right onto New Mexico 605. Continue northeast on New Mexico 605 for 7.4 miles, then turn right onto a dirt road, passing through a locked gate. Drive east along this road for approximately 2 miles, after which the road makes a slight bend to the south and then curves north and ascends a mesa. After reaching the top of the mesa, continue north for another 2.2 miles to the center of the Site.

Note that permission from two private landowners is required in order to access and view the AUM Site. The access route from New Mexico 605 to the mesa is owned by one landowner, and the eastern part of the Site is owned by a different landowner.

1.3 SITE GEOLOGY

The AUM Site lies within the Grants uranium region. This topography of this region is characterized by mesas of Triassic, Jurassic, and Cretaceous sediments separated by broad valleys. The Site area is part of the Chaco Slope, the southern part of the San Juan Basin. Strata in the Chaco Slope dip gently to the north (McLemore, 2002).

The AUM Site is located within the Jurassic-age Todilto Formation, a sequence of carbonates and evaporites. This formation likely represents a salt lake environment intermittently connected to the ocean. The Todilto Formation is underlain by the Entrada Formation and overlain by the Summerville Formation (Hilpert, 1963). The Todilto consists of two members, the upper Tonque Arroyo Member and the lower Luciano Mesa Member. The Tonque Arroyo Member consists of gypsum and is absent from the Site area. The Luciano Mesa Member consists of a



thinly laminated, locally deformed lower layer and a massive, vuggy upper layer (Lucas and Anderson, 2000). Primary-type uranium minerals such as pitchblende are reported to occur in the Todilto Limestone as well as secondary minerals such as carnotite and tyuyamunite (McLaughlin, 1963).

The western and southern portions of the Site contain extensive aeolian deposits, some of which appear to be active. Sand dunes are particularly evident in the Red Bluff No. 2 claim.

1.4 SITE HYDROGEOLOGY

The surface runoff at the AUM Site discharges to San Mateo Creek, which drains into the Rio San Jose approximately 8 miles to the southwest. There is no nearby permanent surface water.

The AUM Site is located in the Bluewater Underground Water Basin. This basin falls between the San Juan Underground Water Basin to the north, the Middle Rio Grande Underground Water Basin to the south and east, and the Gallup Underground Water Basin to the west (Edwards and Kiely, 2004). Aquifers are found in alluvium near major drainages such as San Mateo Creek and throughout the Cretaceous, Jurassic, and Triassic strata in the region. Groundwater flows southward in alluvium and northeast in Mesozoic strata (Brod, 1979).

1.5 REGIONAL TOPOGRAPHY AND TERRAIN

The AUM Site is found on the Dos Lomas Quadrangle 7.5 minute United States Geological Survey topographic map at an elevation of approximately 7000 feet above mean sea level (see Figure 2). The AUM Site is located just west of La Jara Mesa, on a broad mesa capped by the Todilto Formation.

2.0 MINE FEATURES

The mine features described below are based on the features provided to INTERA by MMD in the GIS Data Dictionary (MMD, 2009). INTERA marked the locations of the AUM Site features using a Trimble Global Positioning System (GPS), and entered details about the features into the GPS using the MMD data dictionary. Six pits, one open cut, one mine shaft, and eight piles were found onsite. Please see the Photo Log in Appendix A for photos of the AUM Site features, Table 1 for a list of the AUM Site features, and Figures 4a and 4b for the locations of the AUM Site features.

2.1 MINE SHAFTS, ADITS, AND DECLINES

One shaft was found on the Red Bluff No. 3 claim. This shaft was about 10 feet deep (see Photos 18 and 19 in Appendix A). Anderson (1980) photographed an adit on the southwest end of the Red Bluff No. 2 claim, but this adit was not seen during the present survey. This feature may have been buried beneath blow sand and was not located.



2.2 Mining and Exploration Pits and Open Cuts

Six pits and one open cut were found onsite. The Red Bluff No. 1 claim had one pit (Pit-2), which consisted of a shallow, broad depression (see Photo 20 in Appendix A). The Red Bluff No. 2 claim contained one large pit (Pit-4). Overburden and some Todilto Formation were removed from this pit (see Photos 30-34 in Appendix A). No pits or open cuts were observed in the Red Bluff No. 3 claim. The Red Bluff No. 4 claim contained two small pits, Pit-5 and Pit-6. These pits were dug up to 15 feet into the Todilto Formation, and associated piles were located nearby (see Photos 36, 37, 39 and 40 in Appendix A). The Red Bluff No. 5 claim had one pit (Pit-1) and one open cut (CutLn-1). Both features were cut into the Todilto Formation (see Photos 5-7, 10-13 in Appendix A). The Red Bluff No. 9 claim had one large pit (Pit-3). Overburden has been removed from this pit, exposing Todilto Formation (See Photos 22-24 in Appendix A).

2.3 WASTE AND ORE PILES AND DISTURBANCES

Eight piles were found onsite. The Red Bluff No. 1 claim contained one pile (PilePly-5) consisting of overburden and waste rock (see Photo 21 in Appendix A). The Red Bluff No. 2 claim did not have any obvious piles, though nearby sand dunes may be overburden piles reworked by wind. The Red Bluff No. 3 claim had two piles, PilePly-3 and PilePly-4. PilePly-3 consists of low mounds of waste rock (see Photo 15 in Appendix A) while PilePly-4 consists of revegetated overburden and waste rock (see Photo 17 in Appendix A). The maximum gamma reading obtained onsite (1250 μR/hr at 0 ft above ground) was recorded on PilePly-3. The Red Bluff No. 4 claim contained one pile area (PilePly-8; see Photo 38 in Appendix A). These piles were likely waste rock from Pit-5 and Pit-6. The Red Bluff No. 5 claim had two piles, PilePly-1 and PilePly-2. PilePly-1 was a broad, flat mound of waste rock (see Photos 2-4 in Appendix A) and PilePly-2 appeared to have overburden as well as waste rock (see Photos 8 and 9 in Appendix A). The Red Bluff No. 9 claim contained PilePly-6 and PilePly-7. PilePly-6 lies on the eastern edge of Pit-3 and represents overburden removed from the pit (see Photo 25 in Appendix A). PilePly-7 is a broad, flat mound of poorly vegetated waste rock on the extreme eastern edge of the Site (see Photo 26 in Appendix A).

2.4 Mining Related Buildings and Foundations

No mining related buildings and foundations were evident at the AUM Site.

2.5 OTHER MINE FEATURES

An access road (Access-1) passes through the Site.

2.6 Boreholes

No boreholes were evident at the AUM Site.

2.7 RECLAMATION ACTIVITIES

No apparent reclamation activities have taken place at the AUM Site.



3.0 ARCHEOLOGICAL SITES

No apparent archeological sites were identified at or near this AUM Site.

4.0 SITE GAMMA RADIATION READINGS

One background gamma radiation reading was taken near the AUM Site, recording 21 μ R/hr at 0 ft above ground and 19 μ R/hr at 4 ft above ground. Please see Table 2 for all of the gamma radiation readings taken at the AUM Site and Figures 4a and 4b for the locations of the radiation readings.

The maximum gamma radiation reading for the AUM Site was $1250 \,\mu\text{R/hr}$ at 0 ft above ground at radiation survey point Rad-7 (see Photo 16 in Appendix A) on PilePly-3. This reading was taken on a mineralized boulder from a pile of waste rock. Other notable radiation readings were taken at radiation survey point Rad-13 (1100 $\mu\text{R/hr}$ at 0 ft above ground) in Pit-3 and radiation survey point Rad-1 (800 $\mu\text{R/hr}$ at 0 ft above ground; see Photo 1 in Appendix A) on a mineralized boulder in PilePly-1.

5.0 CURRENT LAND USES

5.1 HUMAN ACTIVITY AND RECREATIONAL SITE USE

Fences, cow droppings, and cow prints indicate that the AUM Site area is active ranchland. Various pieces of metal trash found throughout the site suggest other forms of human activity.

5.2 NEARBY RESIDENTIAL, COMMERCIAL AND INDUSTRIAL STRUCTURES

No structures were sighted within a mile of the AUM Site.

5.3 NEARBY DOMESTIC WELLS

One non-domestic well (B-01341) is located about 1 mile south of the Site (NMOSE, 2008). No domestic wells lie within a mile of the Site.

5.4 EVIDENCE OF GRAZING OR AGRICULTURE

Cow droppings and cow footprints were noted in the area.

5.5 EVIDENCE OF WILDLIFE

Scrub jays, cottontails, and jackrabbits were observed onsite. Deer scat was also found. Rodent droppings were present in CutLn-1 (see Photo 13 in Appendix A).



6.0 VEGETATION

The AUM Site is located in the Coniferous and Mixed Woodland vegetation type and borders the Desert Grassland (Ecotone). Woody species at the site include Utah juniper, pinyon pine, fourwing saltbush and rubber rabbitbush. Snakeweed, narrowleaf yucca, and common sagewort were also present. Scapose bitterweed was present at the AUM Site along with grama grass, dropseed, and Indian ricegrass. Cryptogamic crust was present in areas. No noxious weeds were observed.

7.0 POTENTIAL OFFSITE IMPACTS

7.1 EROSION

No evidence of erosion was observed onsite.

7.2 ENVIRONMENTAL IMPACTS

There is no evidence of soil staining from chemicals potentially brought to the AUM Site.

8.0 REFERENCES

- Anderson, Orin J., 1980. Abandoned or Inactive Uranium Mines in New Mexico. New Mexico Bureau of Mines and Mineral Resources Open File Report 148.
- Brod, Robert C., 1979. Hydrogeology and Water Resources of the Ambrosia Lake-San Mateo Area, McKinley and Valencia Counties, New Mexico. Master's thesis. New Mexico Institute of Mining and Technology, Socorro, New Mexico.
- Edwards, Mark H. and Kiely, Jeffrey, 2004. Cibola-McKinley Regional Water Plan. Prepared for the New Mexico Interstate Stream Commission.
- Hilpert, Lowell S., 1963. Regional and Local Stratigraphy of Uranium-Bearing Rocks in Kelley, Vincent C., ed. Geology and Technology of the Grants Uranium Region. New Mexico Bureau of Mines and Mineral Resources, Memoir 15.
- Lucas, S. G. and Anderson, Orin J., 2000. The Todilto Salina Basin, Middle Jurassic of the U. S. Southwest in E. H. Gierlowski-Kordesch and K. R. Kelts, eds, Lake Basins Through Space and Time: AAPG Studies in Geology, 46, p. 153-158.
- McLaughlin, E. D., Jr., 1963. Uranium Deposits in the Todilto Limestone of the Grants District in Kelley, Vincent C., ed. Geology and Technology of the Grants Uranium Region. New Mexico Bureau of Mines and Mineral Resources, Memoir 15.
- McLemore, Virginia T., 2002. Navajo Lake State Park: New Mexico Geology, v. 24, no. 3, p. 91-96,103.



Mining and Minerals Division (MMD), 2009. Mine Feature Data Dictionary.

New Mexico Office of the State Engineer (NMOSE), 2008. Wells and Surface Diversions in New Mexico. WATERS_PODS_may08.shapfile. OSE Waters Database.



TABLES



Table 1 Site Features

Red Bluff Nos 1, 2, 3, 4, 5 & 9-NM0077 Abandoned Uranium Mine Assessments

Feature Name	On Site?	Feature Type	Associated Feature	Material	Height or Depth (ft)	Width or Diameter (ft)	Length (ft)	Open	Collapsed	Closure Type	Associated Photo	Claim	Notes
Access-1	No	Access		Dirt									
CutLn-1	Yes				15	30	75				NM0077_010 NM0077_011 NM0077_012	Red Bluff No. 5	
PilePly-1	Yes	Waste		Rock	3	50	200				NM0077_002 NM0077_003 NM0077_004	Red Bluff No. 5	
PilePly-2	Yes	Waste		Rock	10	100	150				NM0077_008 NM0077_009	Red Bluff No. 5	
PilePly-3	Yes	Waste		Rock	3	70	100				NM0077_015	Red Bluff No. 3	
PilePly-4	Yes	Waste		Rock	5	75	75				NM0077_017	Red Bluff No. 3	
PilePly-5	Yes	Waste		Rock	25	150	150				NM0077_021	Red Bluff No. 1	
PilePly-6	Yes	Waste		Soil	20	75	75				NM0077_025	Red Bluff No. 9	
PilePly-7	Yes	Waste		Rock	5	50	200				NM0077_026	Red Bluff No. 9	
PilePly-8	Yes	Waste		Rock	8	200	300				NM0077_038	Red Bluff No. 4	
Pit-1	Yes	Mining			10	50	125	Yes			NM0077_005 NM0077_006 NM0077_007	Red Bluff No. 5	
Pit-2	Yes	Mining			20	100	150	Yes			NM0077_020	Red Bluff No. 1	
Pit-3	Yes	Mining			15	150	250	Yes	-		NM0077_022 NM0077_023 NM0077_024	Red Bluff No. 9	
Pit-4	Yes	Mining		Sand, rock	25	200	300	Yes			NM0077_030 NM0077_031 NM0077_032 NM0077_033	Red Bluff No. 2	
Pit-5	Yes	Mining		Rock	15	25	55	Yes			NM0077_036 NM0077_037	Red Bluff No. 4	
Pit-6	Yes	Mining		Rock	8	15	35	Yes			NM0077_039 NM0077_040	Red Bluff No. 4	
ShaftPly-1	Yes	Vertical			10	8		Yes	Yes	Collapsed	NM0077_018 NM0077_019	Red Bluff No. 3	

Notes:

-- designates no information



Page 1 of 1 Table 1

Table 2 Gamma Radiation Survey Results

Red Bluff Nos 1, 2, 3, 4, 5 & 9-NM0077 Abandoned Uranium Mine Assessments

Reading ID	0 ft (μR/hr)	4 ft (μR/hr)	Associated Photo	Asssociated Feature
Rad-1	800	180	NM0077_001	PilePly-1
Rad-2	350	90		PilePly-1
Rad-3	360	130		Pit-1
Rad-4	250	100		PilePly-2
Rad-5	210	110		CutPly-1
Rad-6	190	80		PilePly-3
Rad-7	1250	100	NM0077_016	PilePly-3
Rad-8	100	40		PilePly-4
Rad-9	34	21		PilePly-4
Rad-10	15	17		ShaftPly-1
Rad-11	600	140		Pit-2
Rad-12	20	18		PilePly-5
Rad-13	1100	70		Pit-3
Rad-14	12	14		PilePly-6
Rad-15	250	150		PilePly-7
Rad-16	600	120		Pit-4
Rad-17	600	340		Pit-4
Rad-18	700	220		Pit-5
Rad-19	250	160		PilePly-8
Rad-20	600	200		Pit-6
RadBack-1	21	19		

Notes:

All gamma readings at this site taken by Ludlum 192 $\mu R/Ratemeter$ $\mu R/hr=microroetgens$ per hour

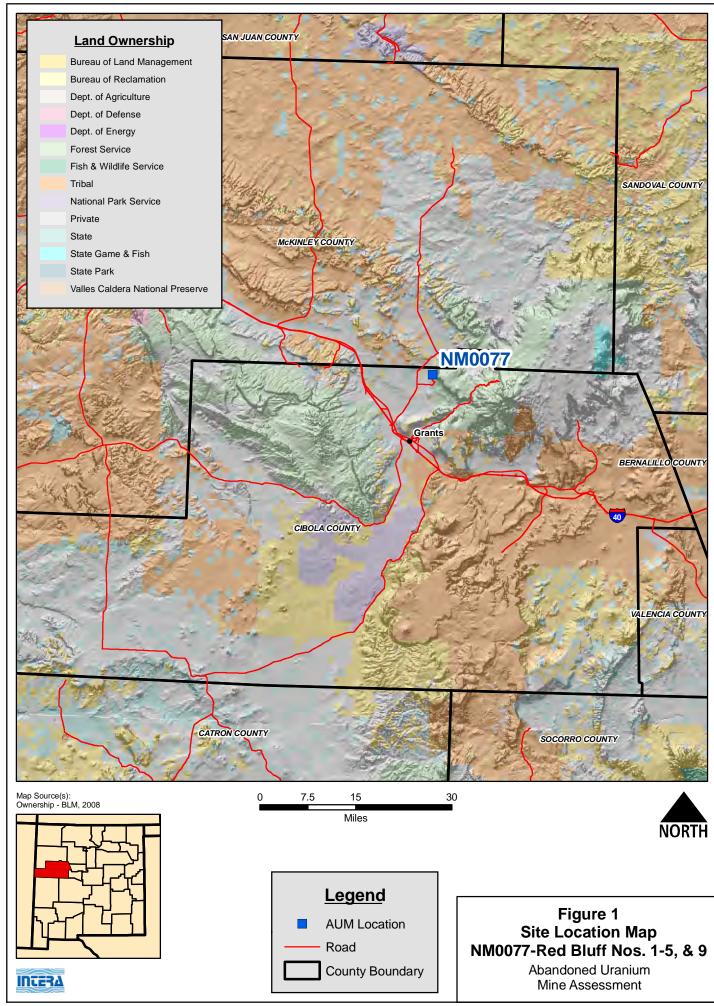
-- designates no information

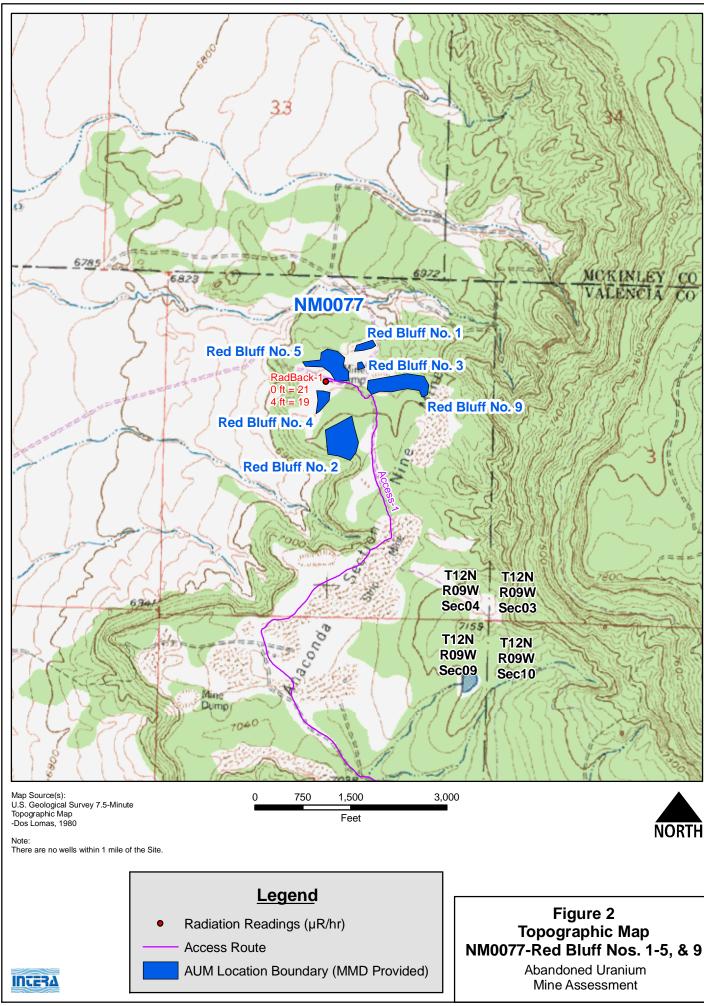


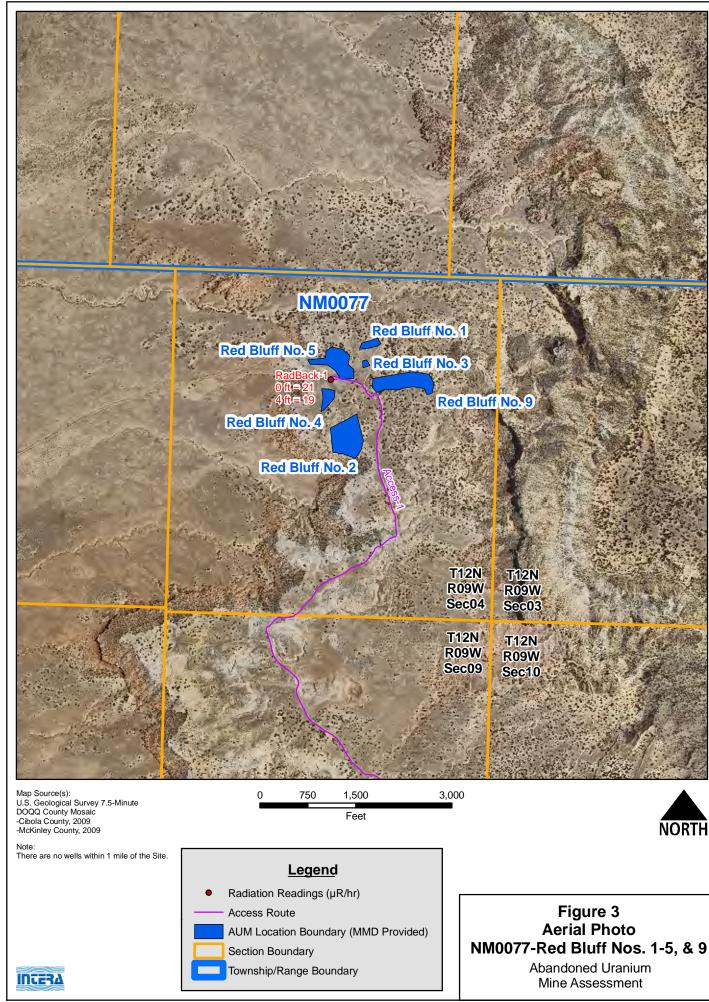
Page 1 of 1 Table 2

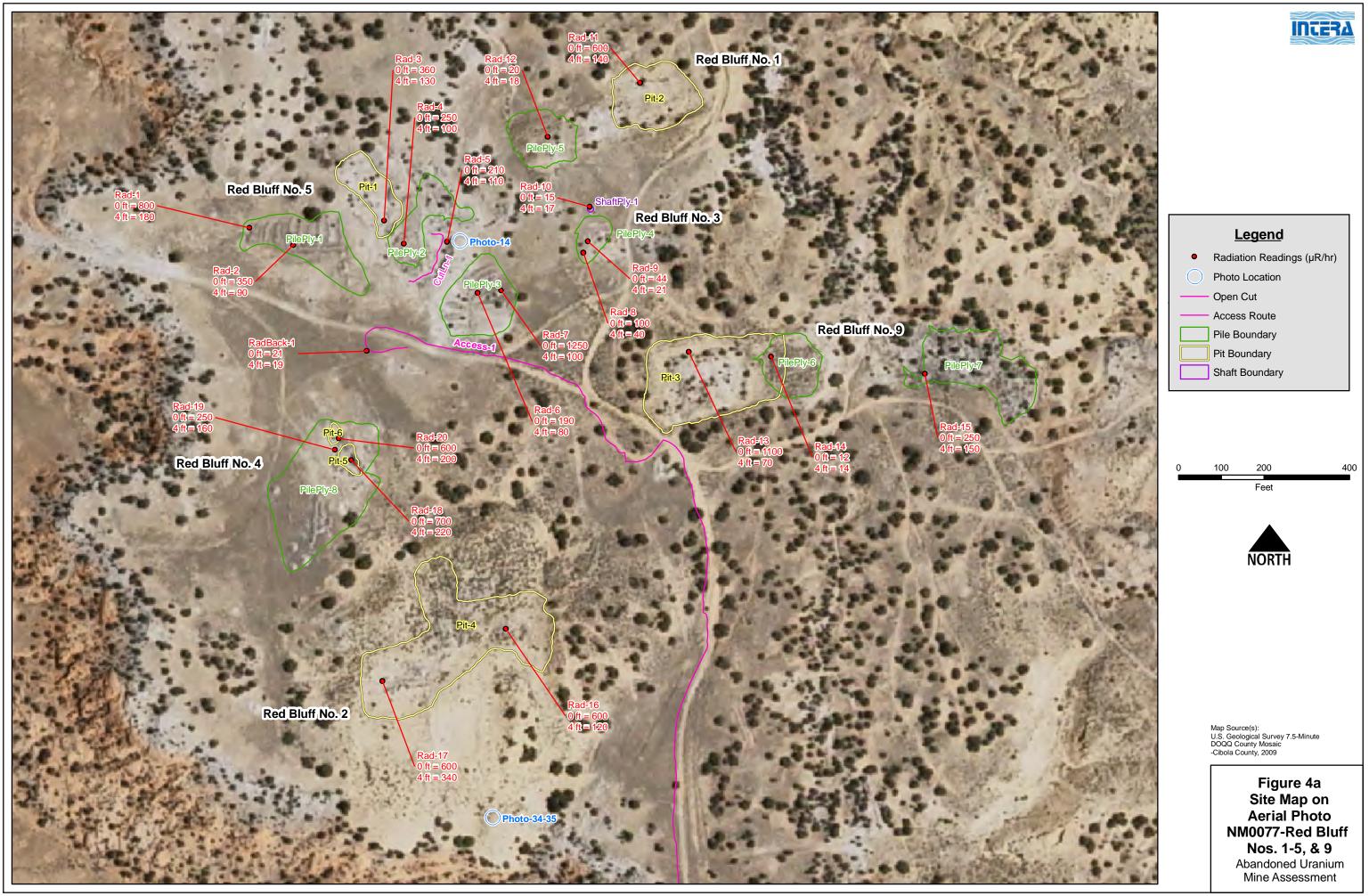
FIGURES

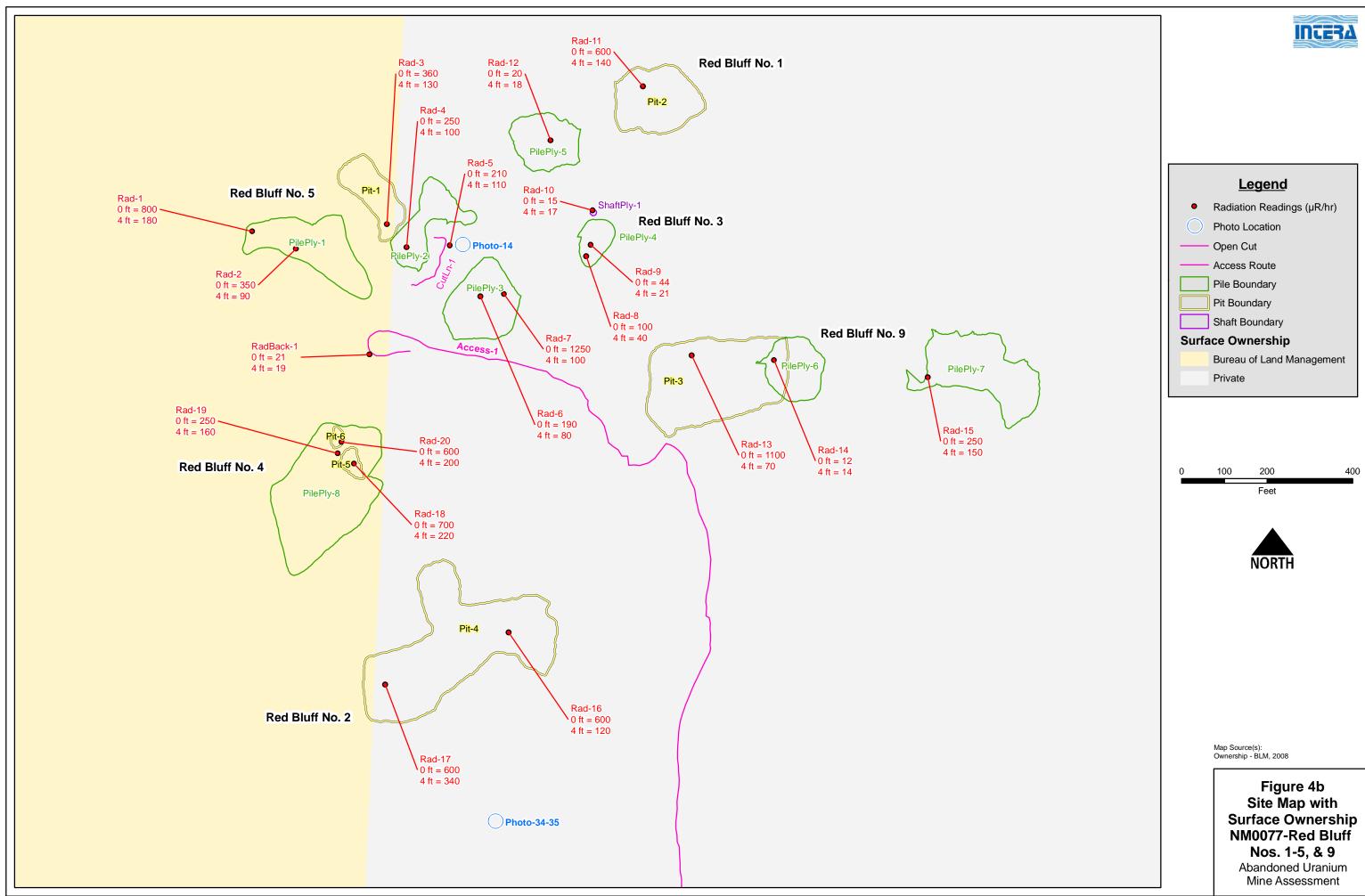












APPENDIX A PHOTO LOG

Note: Gaps in the numbering sequence of the photos is the result of removing photos not suitable for the report. A full set of photos is provided in the electronic deliverable.





Photo 1-Radiation survey point 1 (800 μ R/hr at contact; Red Bluff No. 5 claim).

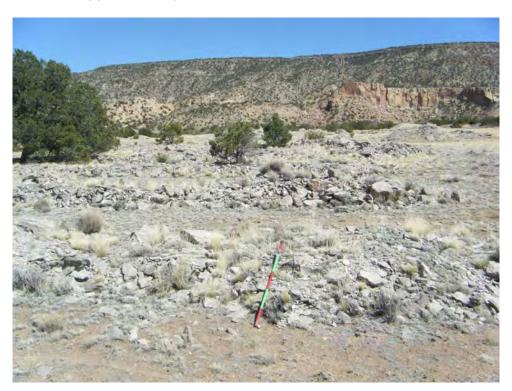


Photo 2-Looking east at PilePly-1 (Red Bluff No. 5 claim).





Photo 3-Looking north at PilePly-1 (Red Bluff No. 5 claim).



Photo 4-Looking northwest at PilePly-1 (Red Bluff No. 5 claim).





Photo 5-Looking northwest at Pit-1 (Red Bluff No. 5 claim).



Photo 6-Folded Todilto Formation in Pit-1 (Red Bluff No. 5 claim).





Photo 7-Looking south at Pit-1 (Red Bluff No. 5 claim).



Photo 8-Looking south at PilePly-2 (Red Bluff No. 5 claim).





Photo 9-Looking north at PilePly-2 (Red Bluff No. 5 claim).



Photo 10-Looking south at CutLn-1 (Red Bluff No. 5 claim).





Photo 11-Looking east at CutLn-1 (Red Bluff No. 5 claim).



Photo 12-Looking southeast at CutLn-1 (Red Bluff No. 5 claim). Note steel rods in the rock face.





Photo 13-Pack rat den and droppings in CutLn-1 (Red Bluff No. 5 claim).



Photo 14-Site photo, looking west at Red Bluff No. 5 claim.





Photo 15-Looking northwest at PilePly-3 (Red Bluff No. 3 claim), per Anderson Report Photo A.



Photo 16-Radiation survey point Rad-7 (1250 $\mu R/hr$ at contact; Red Bluff No. 3 claim).





Photo 17-Looking west at PilePly-4 (Red Bluff No. 3 claim).



Photo 18-Looking west at ShaftPly-1 (Red Bluff No. 3 claim).





Photo 19-Looking south into ShaftPly-1 (Red Bluff No. 3 claim).



Photo 20-Looking south into Pit-2 (Red Bluff No. 1 claim).





Photo 21-Looking southeast at PilePly-5 (Red Bluff No. 1 claim).



Photo 22-Looking southeast at Pit-3 (Red Bluff No. 9 claim).





Photo 23-Looking east at steel rod in Pit-3 (Red Bluff No. 9 claim).



Photo 24-Looking east at Pit-3 (Red Bluff No. 9 claim).





Photo 25-Looking east at PilePly-6 (Red Bluff No. 9 claim).



Photo 26-Looking east at PilePly-7 (Red Bluff No. 9 claim).





Photo 27-Cryptobiotic soils on the AUM Site.



Photo 30-Looking northeast at Pit-4 (Red Bluff No. 2 claim).





Photo 31-Looking northeast at Pit-4 (Red Bluff No. 2 claim).



Photo 32-Looking southwest at Pit-4 (Red Bluff No. 2 claim), replicating Photo (C) in Anderson (1980).





Photo 33-Closeup of Todilto Formation in Pit-4 (Red Bluff No. 2 claim).



Photo 34-Looking southeast from the MMD-provided shapefile on the Red Bluff No. 2 claim.





Photo 35- Looking northwest from the MMD-provided shapefile on the Red Bluff No. 2 claim.



Photo 36-Looking east at Pit-5 (Red Bluff No. 4 claim).





Photo 37-Looking north at Pit-5 (Red Bluff No. 4 claim).



Photo 38-Looking east at PilePly-8 (Red Bluff No. 4 claim).





Photo 39-Looking east at Pit-6 (Red Bluff No. 4 claim).



Photo 40-Looking south at Pit-6 (Red Bluff No. 4 claim).



APPENDIX B FIELD NOTES



Objective: Site Assessment

<u>Personnel:</u> Annelia Tinklenberg Danny Bowman

(SN: 494 8447271), 2008 series), Ludlum 192 (SN: 234149), Fuji Film digital camera (No. 80839493), backup Garmin GPS, eell phone amplifier, field laptop

1420 At site

Background Rad- Om- 20 nR/h; Im-19 xR/h

Radl-westend & litelly-1; on-8004R/h; Im-1804R/h

Pilefly-1-numerous pile sidges and comes; 50'wide, 200' long; 3'high

Photo 1-rock from Radl

Photo 2 - looking east at Aleply 1 Photo 3 - looking north attilety 1

Rad 2 - Pitelly -1; on - 350 mR/h; Im - 40 nR/h

Photo 4 - looking north west at Pile Ply1

PitPly1 - 10' deep, 50' wide, 125' long Photo 5- looking northwest at PitPly-1

Photo 6 - looking at folds in the Todito in Pitply!

Photo 7 - looking south at PitPly1

Road 3 - Pitply - om- 360 48h - 130 m- 130 mR/h

PilePly 2-10' high; 150' long; 100' wide Photo 8-looking south ext file Ply 2 Photo 9-looking north at PilePly 2

Rad 4 - Pileply 2 - Om- 250 nR/6; Im- 100 nR/6

Cutint = 15" deep, 30 wide, 75" long Photo 10 - looking south at Cutin 1
Photo 12 - looking south east at Cutin 1
Photo 12 - looking southeast at Cutin-1; with steel rods in rock face

Red 5- cutin-1; on- 210 uR/h; Im-110 deR/h

Photo 13- Pack root den and scot in Cutla-1

Photo 14- Site name, looking south west at Red Bruff No. 5

Pitelly 3 - 3'high; 70' wide, 100' long; pile ridges and Photo 15-booking northwest at Pileply3

4/6/10 Aut Abandoned Uraniam Mines 1500 Rad 6 - Pilety 3 - On 19048/h; Im - 80018/4 Rad 7 - Pile Ply3 - Om - 1250 rR/h; im - 100 MR/h Photo 16 - Rad 7 Rock. Red Bluff No3 Pile Ply 4-5' high; 75'wide; 75' long; waste rock Photo 17-100king west at fleply 4 Rad 8-Pileply 4-om-100nR/h; In-40nR/h Rad Sair Pilelly 4- om 34 ml/h;/m -21 MR/h ShaftPly-1-collapsed; 10' deep, 8' diameter Photo 18 - looking west at shaftply 1 Photo 19- Looking south into shaftfly 1. Rad 10 - shaft Ply 1 - On-15 nR/h; im-17 MR/h 1530 Red Bluff No. 1 Pit 2 - 20' on Fenorth end, 2' deep on south end 100'wide; 150' long; Todilto under blow Rad 11 - Pit 2 - on - 600nR/h; Im - 140nR/h Rioto 20 - looking south into Pita Pilelly 5 - 150' diameter; 25' high; waste rock and Photo 21 - leoking south east at PilePly 5

1/6/10 Act Abandoned Uranium Mines 128
Rad 12 - Pile Ply 5 - Om 20 nR/h: 18 - 1 m-18 nR/h
1545 Red Bluff No 9 Pit 3; 15' deep, 150' land wide; 250' long Photo 22 - looking southeast at Pit 3 Rad 13 - Pit 3 - Om- 1100 MR/h - Im- 70 MR/h
Photo 23 looking east at steel rod in Pit3 Photo 24 - looking east at Pit3
Pile Plylo-overburden sand from Pit3, scraped out to expose Tod. Its; 20'high, 75'x75'
Photo 25 - looking east out litely 6
Rad 14 - Piletly 6 - Om- 12 mp/h; Im- 14 mp/h
Pilefly 7-5'high; 50'wide; 200'long, wastereck Photo 26-looking east at filefly 7 Rad 15-filefly 7-0m-250 uffh; Im-1504R/h
Photos 27-29-cryptobiotic soils
1620 Red Bloff No. 2 Pit4 - acolian sand on top of Toditho Todilto 25'deep; 300' long, 200' wide
Rad 16 - Pity; om 600 nR/h; 1m-120 nR/k
Photos 30-31-looking stother northeast at Pit 4

Photos 32-33 : looking southwest at Todillo w4

Rad 17 - Pit4; Om- 60048/h; Im- 34048/h

in Red Bluff No. 2 polygon

1100 Red Bluff Noy Pits - 15'deep, as'wide; 55' long Rad 18 - Pit 5: - Om - 700 MR/h; Im - 230 MR/h. Photo 36 - looking east at Pits. Anoto 37 - looking north at Pits

PilePly8-wasterock, numerous cones 8'high, 300' long, 200' unde Photo 38 - looking east at comes in flephy8. Rad 19 - Pileply 8-On-BonR/h; Im-160 nR/h

Pitto - 8' deep; 15'wide; 35' long Photo 39-looking cust at Pit 6 Photo 40-looking south at Pitle Ras 20-fit6: om-600rR/h; hm-200nR/h

Soils: tan, sandy; red-tan; rocky, grey locally

Rocks: Grey Todilto Linestone, some tan-red sandstone, intel Entrada

Ituman Activities: Grazing, fences, comprists, compies Past mining activity; vorious metal trash. throughout area

